



## NCDOT Prioritization 3.0 Project Summary

**SPOT ID:** H142036

**Mode:** Highway

**Status:** Submitted

### US-321 (Hickory Blvd)

**From/Cross Street:** SR 1160 (Mount Herman Road)

**Specific Improvement Type:** 10 - Improve Intersection

**To:**

**Project Category:** Statewide Mobility

**Length:** 0.5

**TIP#:** U-4700

**Fully Funded in Draft STIP?** No

**Cost to NCDOT:** \$2,170,000

**Description:**

Upgrade intersection to superstreet design.

**Division(s):** Division 11

**County(s):** CALDWELL

**MPOS(s)/RPO(s):** Greater Hickory MPO

### Project Location



Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

**Statewide Mobility Total Score: 37.93**

<b>Quantitative Score</b>	<b>Division Engineer Local Input Points</b>	<b>MPO/RPO Local Input Points</b>
Congestion (V/C) (30%) 43.48	N/A	N/A
Safety (10%) 33.35		
Economic Competitiveness (10%) 21.44		
Multimodal + [Freight & Military] (20%) 12.40		
[Travel Time] Benefit/Cost (30%) 56.42		
<b>Totals: Weight: 100% Weighted Score: 37.93</b>		

**Regional Impact Total Score: 62.25**

<b>Quantitative Score</b>	<b>Division Engineer Local Input Points</b>	<b>MPO/RPO Local Input Points</b>
Congestion (V/C) (25%) 43.48	Percent: 15% Points: 100	Percent: 15% Points: 100
Safety (10%) 33.35		
[Travel Time] Benefit/Cost (25%) 56.42		
Accessibility / Connectivity (10%) 39.36		
<b>Totals: Weight: 70% Weighted Score: 32.25</b>		

**Division Needs Total Score: 73.32**

<b>Quantitative Score</b>	<b>Division Engineer Local Input Points</b>	<b>MPO/RPO Local Input Points</b>
Congestion (V/C) (20%) 43.48	Percent: 25% Points: 100	Percent: 25% Points: 100
Safety (10%) 33.35		
[Travel Time] Benefit/Cost (20%) 56.42		
<b>Totals: Weight: 50% Weighted Score: 23.32</b>		

**Project Data \*****Existing Conditions**

Existing Cross-Section:	
Speed Limit:	50
Length (miles):	0.5
Facility Type:	Multi-Lane Highway
Access Control:	None
Functional Classification:	Other Principal Arterial
Terrain Type:	Rolling
Lane Width:	12
Paved Shoulder Width:	4
Roadway has Curb & Gutter?	No
Volume (AADT):	37359.3
Capacity:	78541.53
Volume/Capacity Ratio:	0.48
% Autos:	93%
% Trucks:	7%
Truck Volume:	2479.5
Crash Density:	0
Crash Severity:	0
Critical Crash Rate:	0
Crash Frequency:	66.7
Severity Index:	0
County Tier Designation:	1
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	21
Existing Median Type (for Cost Estimation):	Divided
Pavement Condition Rating:	84
Actual Congested Speed:	23.21
Travel Time Index:	1.51

**Project Benefits**

Project Cross-Section:	4A - 4 Lane Divided (46' Depressed Median) with Paved Shoulders
Speed Limit:	55
Length (miles):	0.5
Facility Type:	Arterial
Access Control:	Partial
Functional Classification:	Other Principal Arterial
Terrain Type:	Rolling
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	4
Travel Time Savings for 30 Years (Total):	5415000
Travel Time Savings for 30 Years (Autos):	5055611.7
Travel Time Savings for 30 Years (Trucks):	359388.3
Long-Term Employment:	89.18
% Change in Economy:	0.00033955
Provides Direct Connection to Transportation Terminal?	No
Does project upgrade how the roadway functions?	No
In CTP or LRTP?	No
CTP/LRTP Name:	
CTP/LRTP Completion Year:	
Submitted by:	Division 11

\* Data reflects calculations which include weighted averages (where applicable) and represent raw output from the Department's SPOT On!line tool and associated databases.

**Project Ownership****Division**

<b>Division</b>	<b>Percent</b>	<b>Regional Impact</b>	<b>Division Needs</b>
Division 11	100%	100	100
	0%	0	0
	0%	0	0
<b>TOTAL Division Points</b>		<b>100</b>	<b>100</b>

**MPO/RPO**

<b>MPO/RPO</b>	<b>Percent</b>	<b>Regional Impact</b>	<b>Division Needs</b>
Greater Hickory MPO	100%	100	100
	0%	0	0
	0%	0	0
<b>TOTAL MPO/RPO Points</b>		<b>100</b>	<b>100</b>

**Project Cost and Source**

Construction Cost:	\$1,750,000	Cost Estimation Tool
Right-of-Way Cost:	\$420,000	Cost Estimation Tool
Utilities Cost:	\$0	Cost Estimation Tool
Total Project Cost:	\$2,170,000	
Other Funding:	\$0	None
<b>Cost to NCDOT :</b>	<b>\$2,170,000</b>	